THE CLAIMS

What is claimed is:

- 1. A method of preparing a sustained release formulation of a peptide or peptidomimetic, which comprises associating the peptide or peptidomimetic with a counter-ion of a strong proton donor in an amount and at a molar ratio that are sufficient to provide a fluid, milky microcrystalline aqueous suspension of the peptide or peptidomimetic without formation of a gel, such that, when administered to a subject, the peptide is released *in vivo* over a period of at least two weeks.
- 2. The method of claim 1 wherein the counter-ion is a trifluoro methanesulfonic acid, benzenesulfonic acid, trifluoroacetic acid or sulfuric acid.
- 3. The method of claim 1 in which the counter-ion is a strong acid and the peptide is a GnRH analogue.
- 4. The method of claim 3 in which the GnRH analogue is a GnRH antagonist.
- The method of claim 4 in which the GnRH antagonist is Ac-D-Nal-D-Cpa-D-Pal-Ser-Tyr-D-Hci-Leu-Ilys-Pro-D-Ala-NH₂.
- 6. The method of claim 4 in which the GnRH antagonist is Azaline B, Abarelix, Antide, Ganirelix, Cetrorelix, or FE200486 and is in the form of a alkylsulfonate, arylsulfonate, trifluoroacetate or sulfate salt.
- 7. The method of claim 1 in which the peptide is a somatostatin analogue.
- The method of claim 1 in which the somatostatin analogue is Vapreotide, Octreotide, Lanreotide, or SOM 230.

- 9. The method of claim 1 wherein the peptide or peptidomimetic forms a salt with the counter-ion, and the salt is suspended in the aqueous medium at a concentration of at least 25 mg/ml.
- 10. The method of claim 9 in which the aqueous suspension is injected parenterally into a mammal or human subject to obtain a sustained release of the peptide or peptidomimetic over at least one month.
- 11. The method of claim 9 in which the amount of peptide or peptidomimetic in the suspension to be injected ranges from about 0.1 to 5mg per kg body weight of the mammal or human subject.
- 12. A fluid, milky microcrystalline aqueous suspension of a peptide or peptidomimetic and a counter-ion of a strong proton donor in water, wherein the peptide or peptidomimetic and counter-ion are present in amounts and at a molar ratio sufficient to form the suspension of the peptide or peptidomimetic upon mixing without formation of a gel.
- 13. The suspension of claim 12 wherein the counter-ion is trifluoro methanesulfonic acid, benzenesulfonic acid, trifluoroacetic acid, or sulfuric acid.
- 14. The suspension of claim 12 in which the counter-ion is a strong acid and the peptide is a GnRH analogue.
- 15. The suspension of claim 14 in which the GnRH analogue is a GnRH antagonist.
- The suspension of claim 14 in which the GnRH antagonist is Ac-D-Nal-D-Cpa-D-Pal-Ser-Tyr-D-Hci-Leu-Ilys-Pro-D-Ala-NH₂.
- 17. The suspension of claim 14 in which the GnRH antagonist is Azaline B, Abarelix, Antide, Ganirelix, Cetrorelix, or FE200486 and is in the form of a alkylsulfonate, arylsulfonate, trifluoroacetate or sulfate salt.

- 18. The suspension of claim 12 in which the peptide is a somatostatin analogue.
- The suspension of claim 18 in which the somatostatin analogue is Vapreotide, Octreotide, Lanreotide or SOM 230.
- 20. The suspension of claim 12 wherein the peptide or peptidomimetic forms a salt with the counter-ion, and the salt is suspended in the aqueous medium at a concentration of equal to or higher than 25 mg/ml.
- 21. The suspension of claim 12 in which the aqueous suspension contains an isotonic agent.
 - 22. The suspension of claim 21 in which the isotonic agent is mannitol.
- 23. The suspension of claim 12 which further comprises a pharmaceutically acceptable excipient.
- 24. The suspension of claim 23 in which the amount of peptide or peptidomimetic ranges from about 0.1 to 5mg per kg body weight of a mammal or human to which the suspension is to be administered.
- 25. The suspension of claim 12 wherein in the form of microcrystals having a particle size of between about 1 and 150 μm .
- A lyophilized composition comprising the dried suspension of claim
- 27. A method of making the lyophilized composition of claim 25 which comprises associating the peptide or peptidomimetic with a counter-ion of a strong proton donor in an amount and at a molar ratio that are sufficient to provide the suspension without formation of a gel, and lyophilizing the suspension to obtain the composition.
- 28. A method of preparing a fluid, milky microcrystalline aqueous suspension of a peptide or peptidomimetic which comprises adding water or a

buffer solution to the lyophilized composition of claim 25 with mixing to obtain the suspension.

29. A method of preparing a fluid, milky microcrystalline aqueous suspension of a peptide or peptidomimetic which comprises associating the peptide or peptidomimetic with a counter-ion of a strong proton donor in an amount and at a molar ratio with the peptide that are sufficient to provide a fluid, milky microcrystalline aqueous suspension of the peptide or peptidomimetic without formation of a gel; lyophilizing the suspension to form a lyophilized composition; and adding water or a buffer solution to the lyophilized composition with mixing to obtain the suspension.